

03/28/01
09/01/98
03341157360
0103341157360

1/20

Adeno-X.NGN3

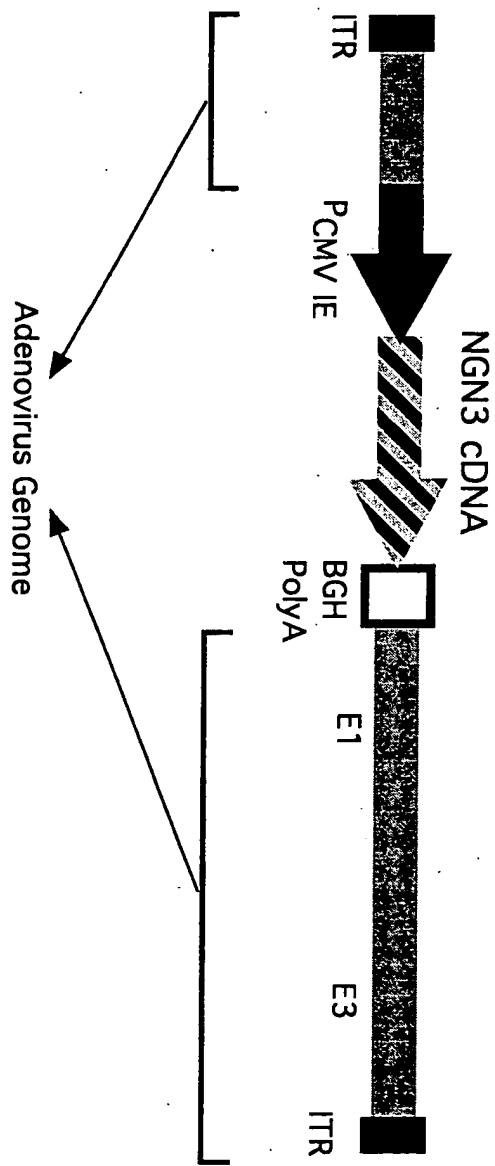


FIG. 1

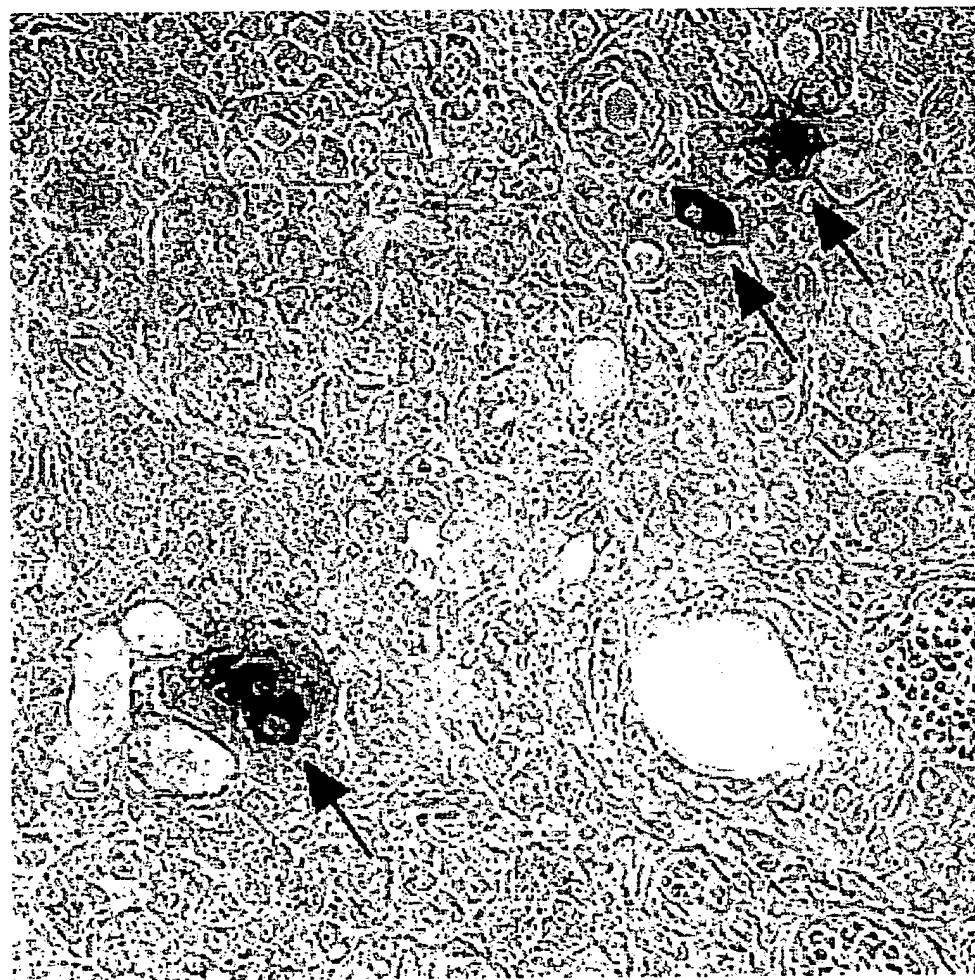


FIG. 2A

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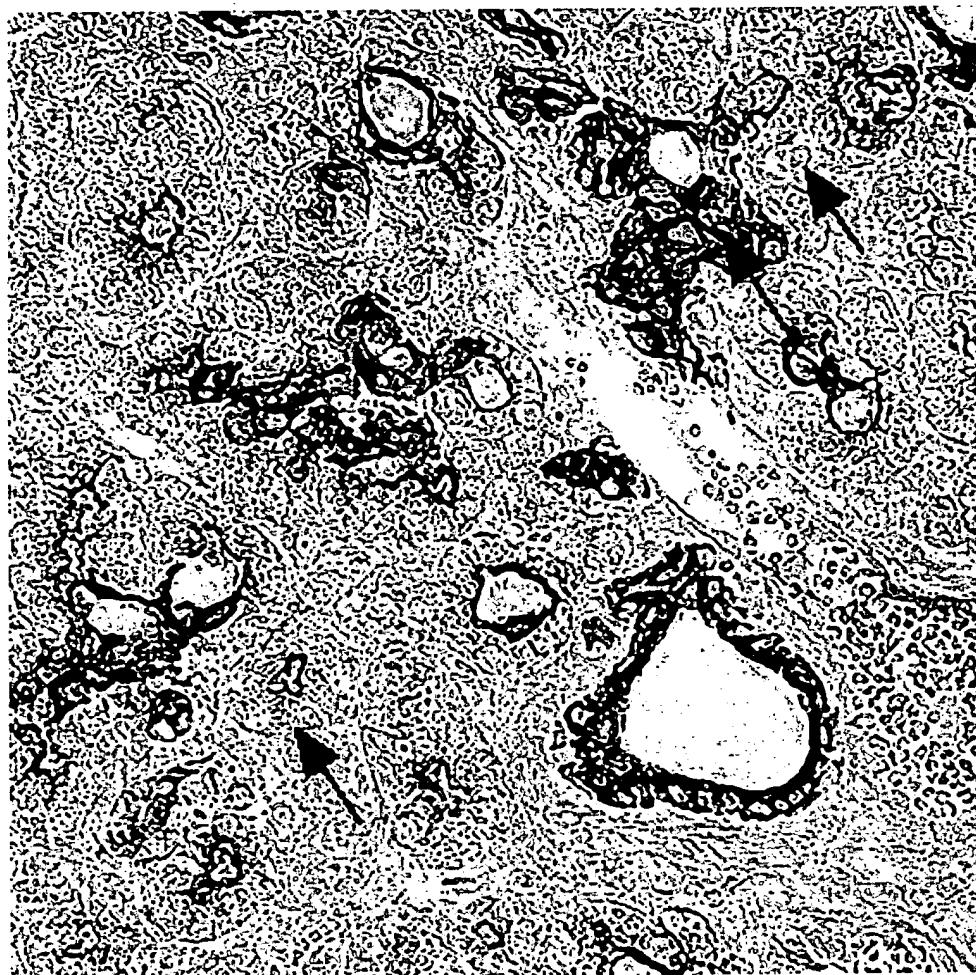


FIG. 2B

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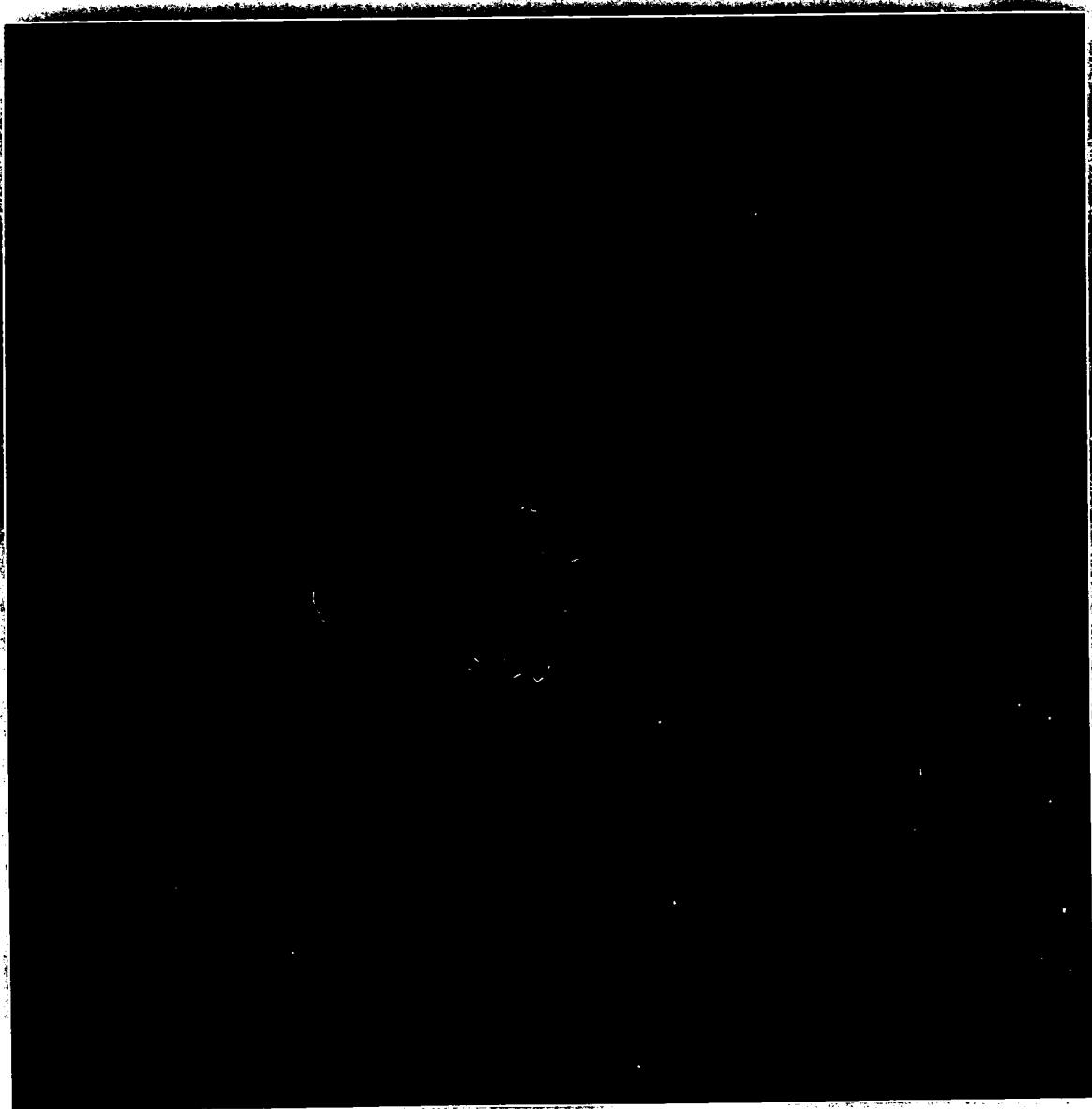


FIG. 3

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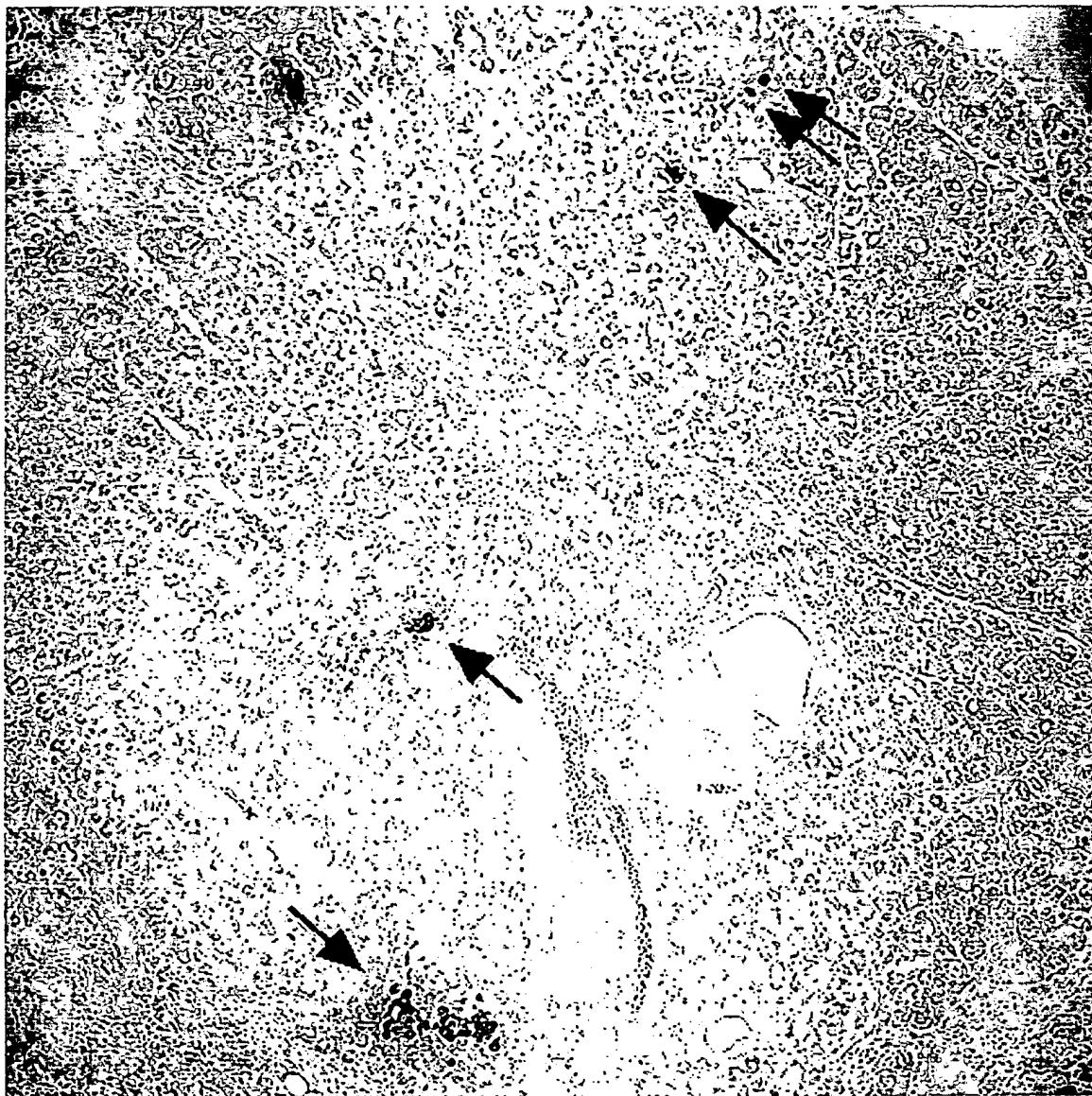


FIG. 4A

6/20

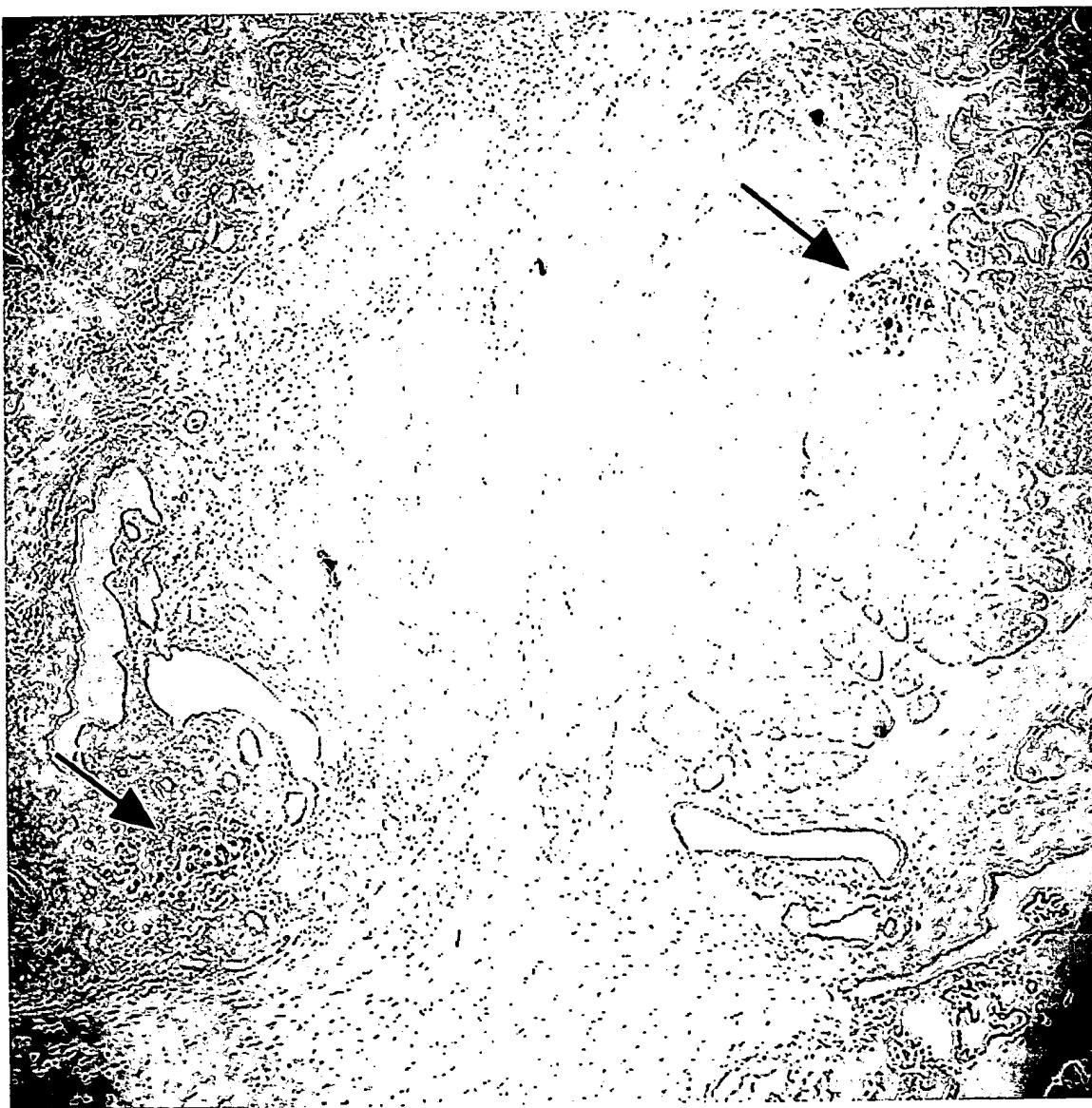


FIG. 4B

7/20

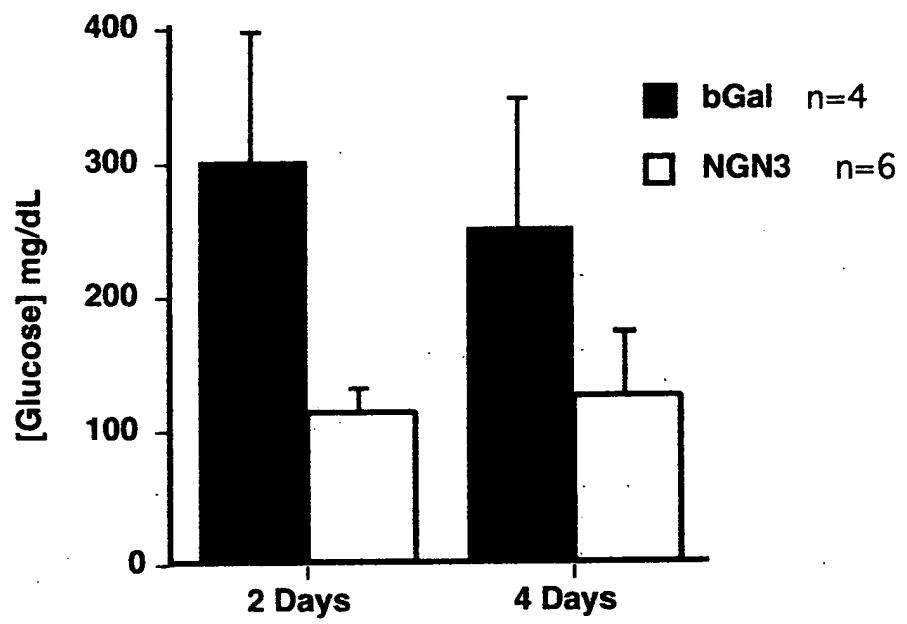


FIG. 5

FIG. 6A



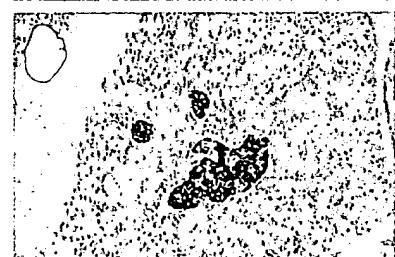
WT

FIG. 6B



pdx1-
ngn3

FIG. 6C

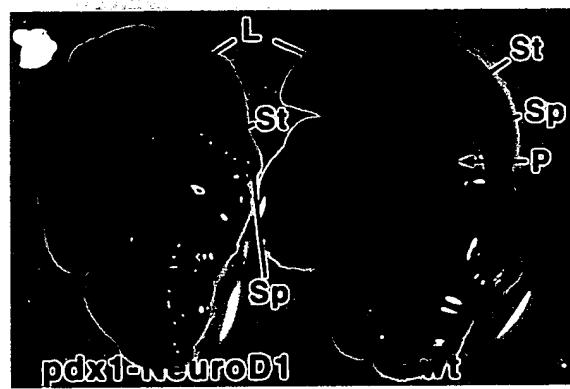


pdx1-
neuroD1

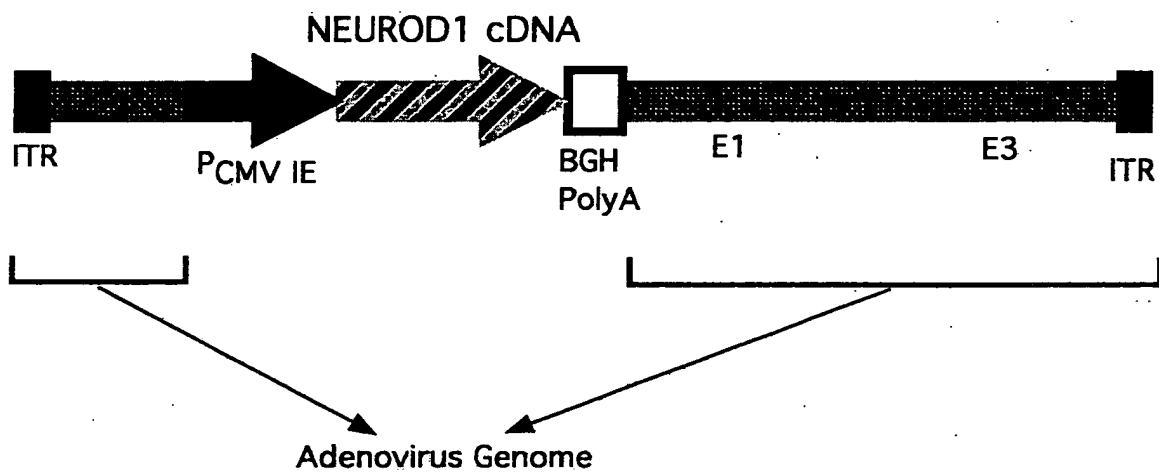
FIG. 7A



FIG. 7B



Adeno-NEUROD1



Adeno-mash1/ASCL1/ASH1

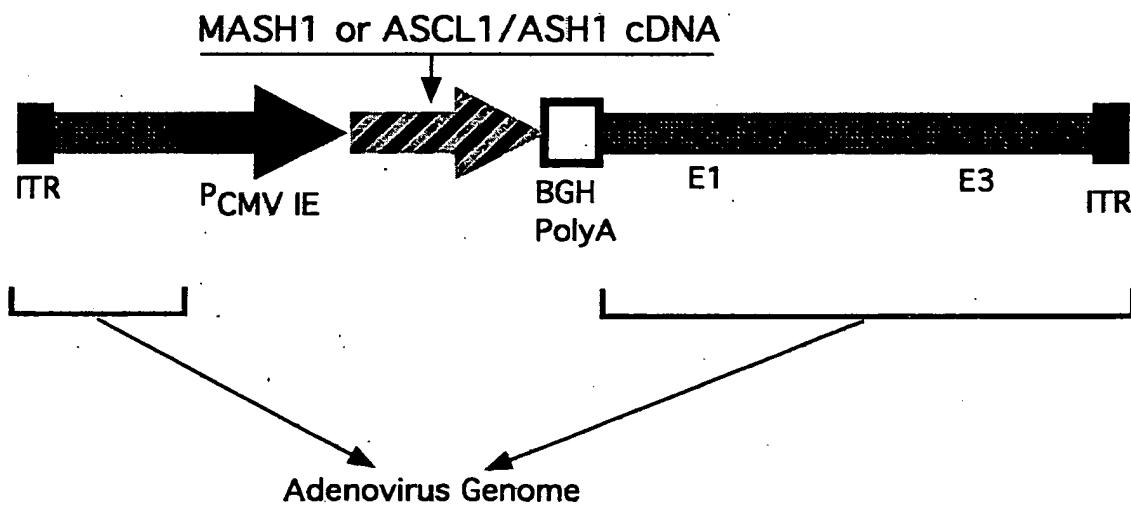


FIG. 8

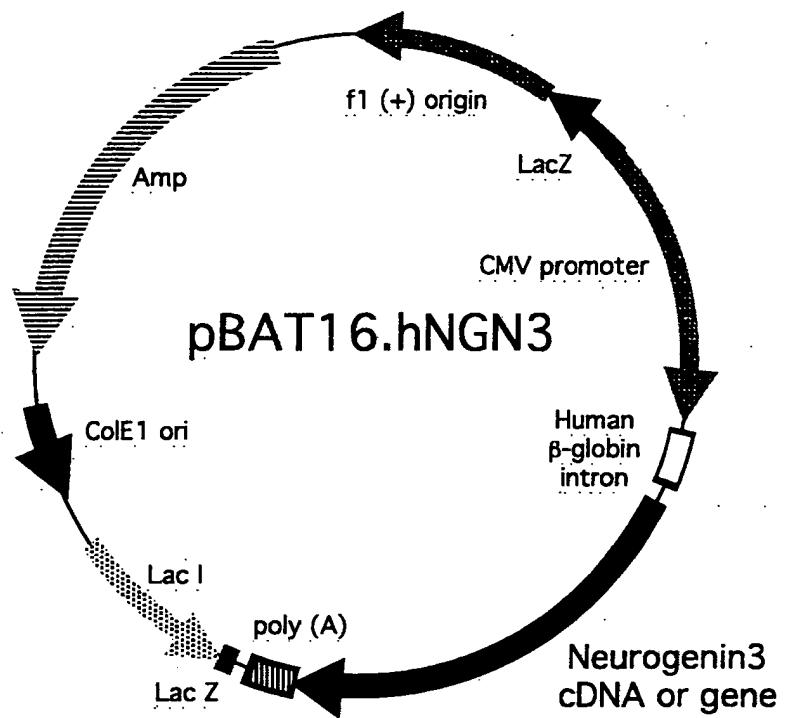


FIG. 9

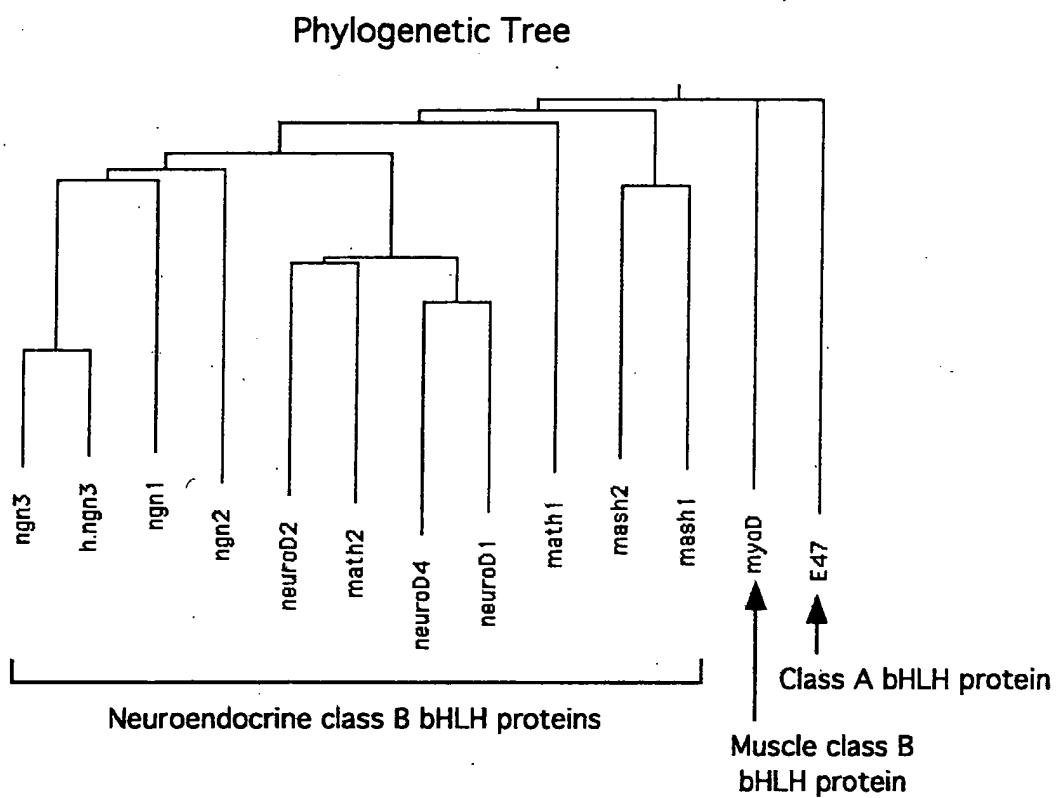


FIG. 10

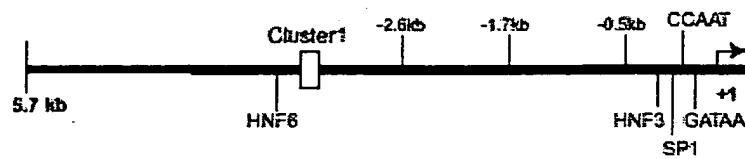


FIG. 11A

-3728 bp
CTTGTAATTATTTATTAACGAAATCTATTTATTATAT
HNF1 HNF6
HNF8
TTTAGCAAACACTGGAGACAGGTGGGGCTTTCTTT
HNF3 E-box - 3653 bp

FIG. 11B
SEQ ID NO:19

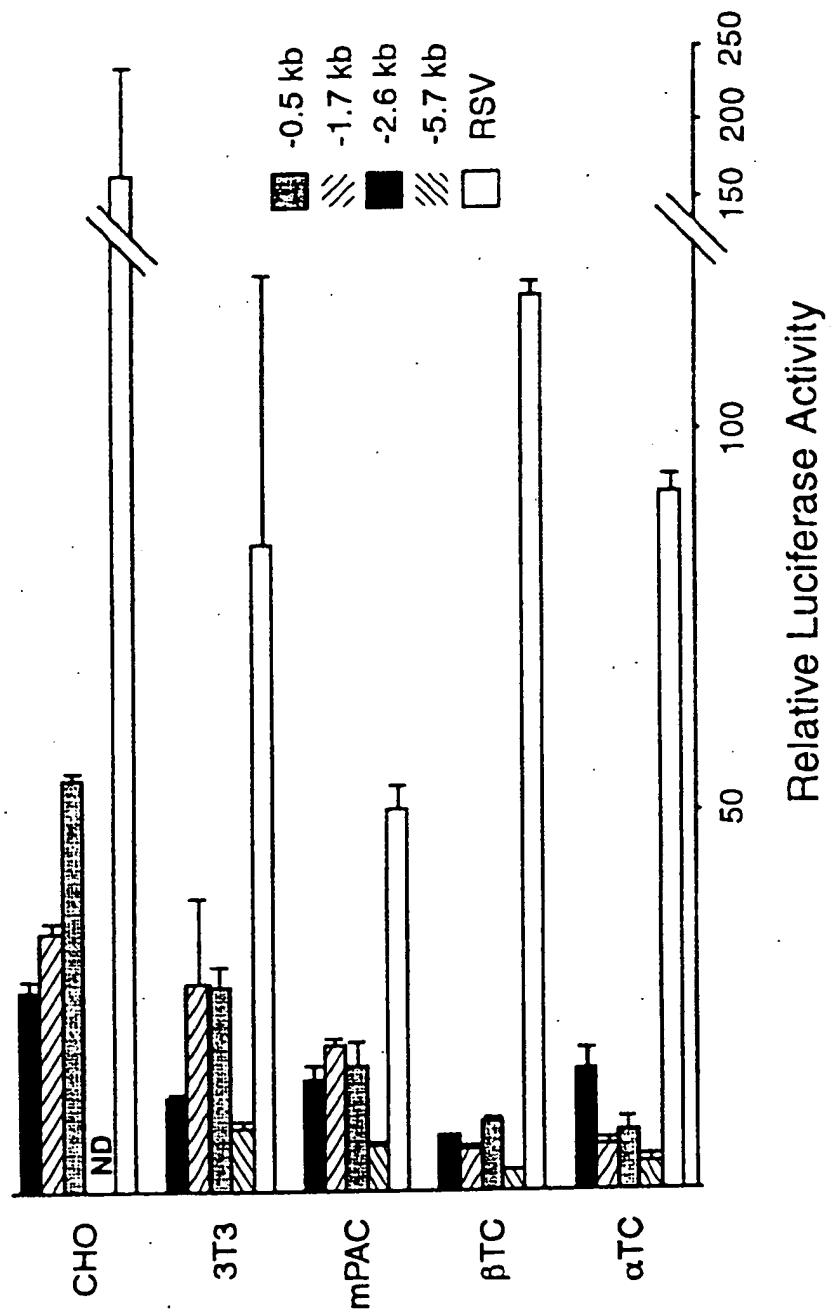


FIG. 12



5.7 kb promoter

FIG. 13A

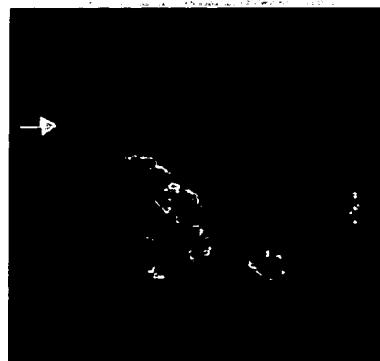


5.7 kb promoter glucagon/βGal 2.6 kb promoter

FIG. 13B

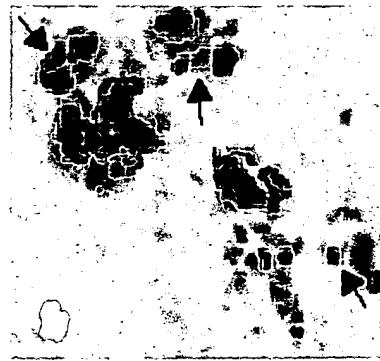


FIG. 13C



insulin/glucagon/βGal

FIG. 14A



neurogenin3/βGal

FIG. 14B



FIG. 15A

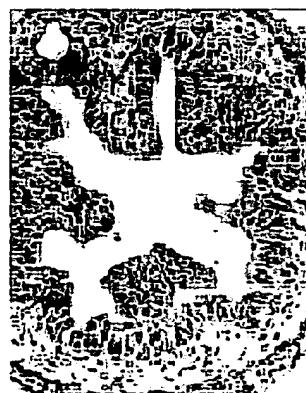
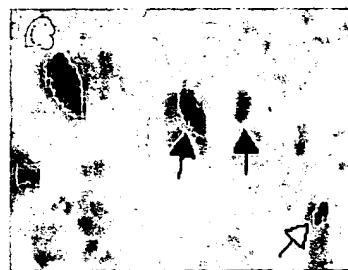


FIG. 15B



neurogenin3/βGal

FIG. 15C

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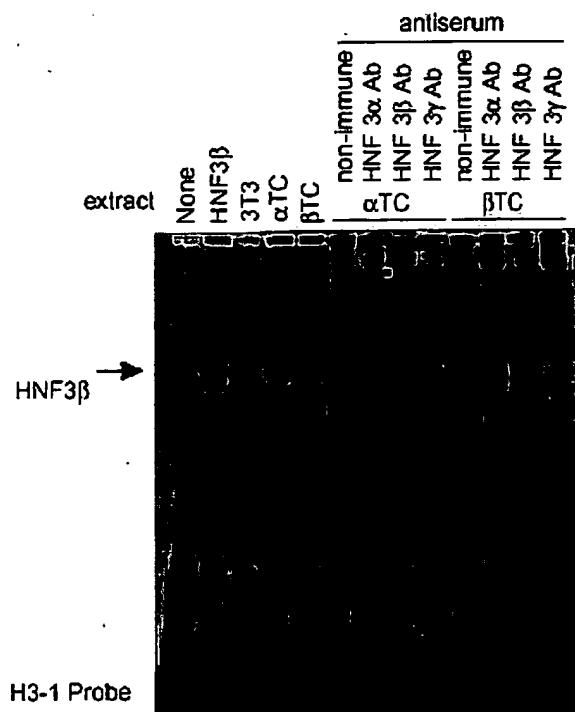


FIG. 16A

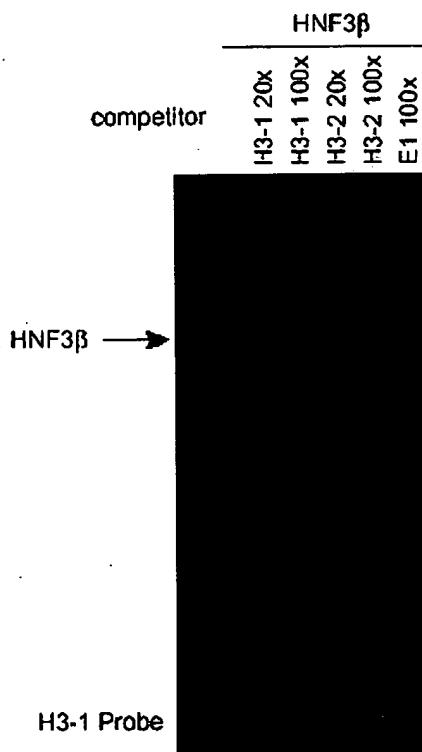


FIG. 16B

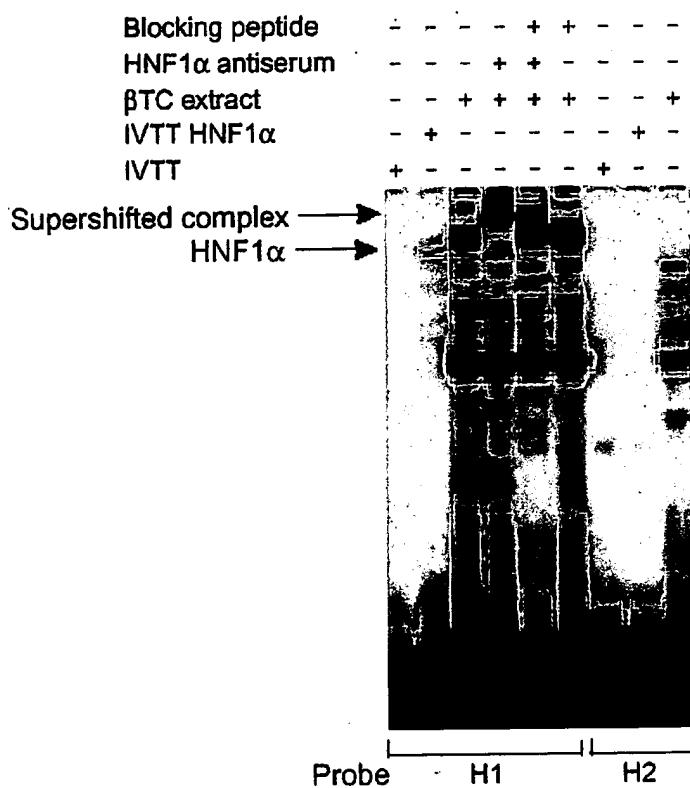


FIG. 17

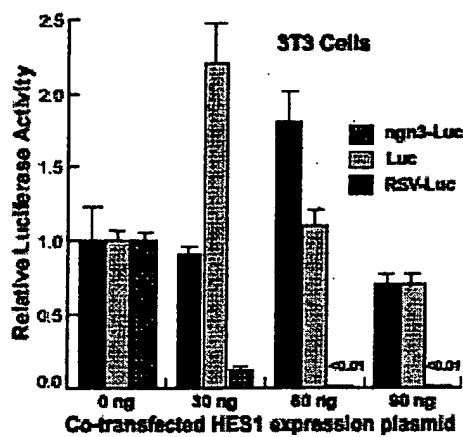


FIG. 18A

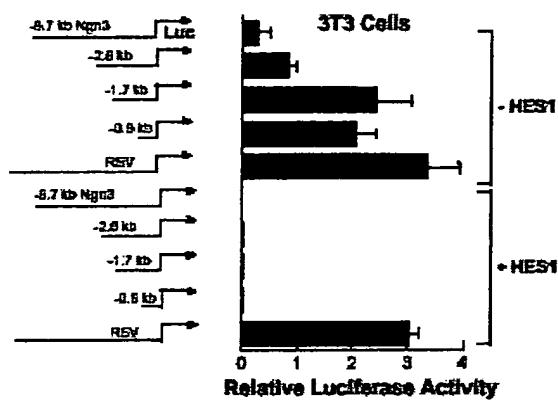


FIG. 18B

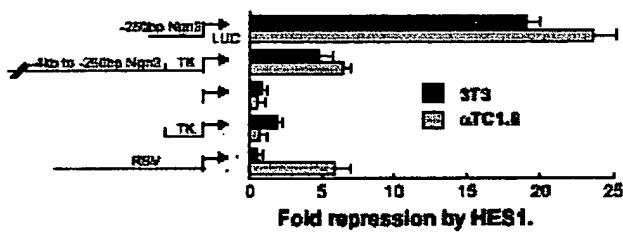


FIG. 18C

Proximal Promoter

-124 bp
 CGGGCTCGCGTGGCCGGCCCCCGGGGCCCCGGCGCTGAATTGGCCGGTGGC
 N1
 GCGGGCAGCAGCCGGCAGGCACGGCACGGCTCTGGCCCCGGCGACAGATAAA
 N2
 TATAA Box
AGCGTCCAAGGGSCACACGACTTGCT
 N3 N4 +1 bp

FIG. 19A

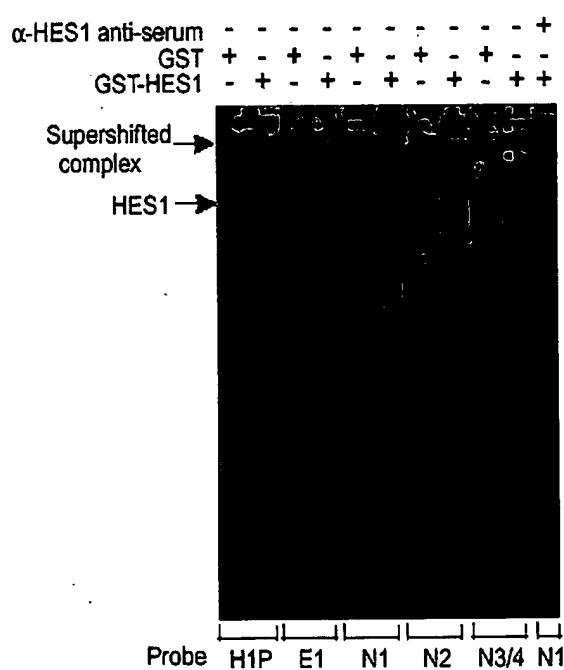


FIG. 19B

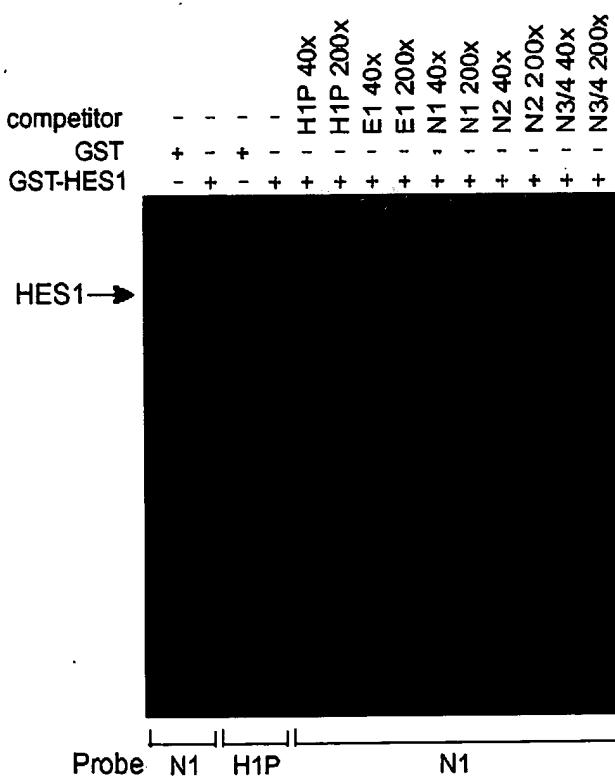


FIG. 19C